Table 1. 2003 Summary Statistics

Item	Value	U.S. Rank
Arizona		
NERC Region(s)		WECC
Primary Energy Source		Coal
Net Summer Capability (megawatts)	23,510	15
Electric Utilities	16,193	15
Independent Power Producers & Combined Heat and Power	7,317	14
Net Generation (megawatthours)	94,396,218	16
Electric Utilities	80,348,246	15
Independent Power Producers & Combined Heat and Power	14,047,973	18
Emissions (thousand metric tons)		
Sulfur Dioxide	63	31
Nitrogen Oxide	80	22
Carbon Dioxide	46,655	20
Sulfur Dioxide (lbs/MWh)	1.5	44
Nitrogen Oxide (lbs/MWh)	1.9	36
Carbon Dioxide (lbs/MWh)	1,090	38
Total Retail Sales (megawatthours)	64,079,560	23
Full Service Provider Sales (megawatthours)	64,079,560	22
Direct Use (megawatthours)	373,797	39
Average Retail Price (cents/kWh)	7.34	17

Table 2. Ten Largest Plants by Generating Capability, 2003

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Arizona			
1. Palo Verde	Nuclear	Arizona Public Service Co	3,825
2. Navajo	Petroleum, Coal	Salt River Proj Ag I & P Dist	2,250
3. Gila River Power Station	Other, Gas	Panda Gila River LP	2,060
4. Glen Canyon Dam	Hydro	U S Bureau of Reclamation	1,296
5. Mesquite Generating Station	Gas	Sempra Energy Resources	1,073
6. Hoover Dam	Hydro	U S Bureau of Reclamation	1,040
7. Cholla	Gas, Petroleum, Coal	Arizona Public Service Co	995
8. West Phoenix	Gas	Arizona Public Service Co	939
9. Redhawk	Gas	Pinnacle West Energy	918
10. Springerville	Petroleum, Coal	Tucson Electric Power Co	805

See footnotes at end of tables.

Table 3. Top Five Providers of Retail Electricity, 2003

(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Arizona	'			1	,	
1. Arizona Public Service Co	Investor-Owned	24,562,305	11,147,195	11,066,410	2,348,700	0
2. Salt River Proj Ag I & P Dist	Public	23,509,147	11,091,296	9,515,561	2,902,290	0
Tucson Electric Power Co	Investor-Owned	8,229,552	3,370,540	1,928,205	2,930,807	0
4. Morenci Water & Electric Co	Investor-Owned	1,628,981	10,170	14,193	1,604,618	0
5. Western Area Power Administrati	Federal	648,613	0	648,613	0	0
Total Sales, Top Five Providers		58,578,598	25,619,201	23,172,982	9,786,415	0
Percent of Total State Sales		91	92	91	90	0

Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003 (Megawatts)

				Annual	I	Percentage Share	
Energy Source	1994	1998	2003	Growth Rate 1994-2003 (Percent)	1994	1998	2003
rizona							
Electric Utilities	15,098	15,084	16,193	0.8	99.0	98.9	68.9
Coal	5,119	5,286	5,336	.5	33.5	34.7	22.7
Petroleum	97	85	108	1.2	.6	.6	.5
Natural Gas	233	35	1,003	17.6	1.5	.2	4.3
Dual Fired	3,006	3,052	2,988	1	19.7	20.0	12.7
Nuclear	3,810	3,733	3,825	*	25.0	24.5	16.3
Hydroelectric	2,648	2,708	2,706	.2	17.4	17.8	11.5
Other Renewables	0	0	11	NM	.0	.0	*
Pumped Storage	185	185	216	1.7	1.2	1.2	.9
Independent Power Producers and Combined							
Heat and Power	161	170	7,317	52.8	1.1	1.1	31.1
Coal	51	65	68	3.2	.3	.4	.3
Petroleum	5	8	4	-2.4	*	.1	4
Natural Gas	19	57	7,232	93.5	.1	.4	30.8
Dual Fired	86	40	13	-18.9	.6	.3	.1
Total Electric Industry	15,258	15,253	23,510	4.9	100.0	100.0	100.0
Coal	5,170	5,351	5,404	.5	33.9	35.1	23.0
Petroleum	102	93	112	1.0	.7	.6	.5
Natural Gas	251	91	8,235	47.4	1.6	.6	35.0
Dual Fired	3,092	3,092	3,001	3	20.3	20.3	12.8
Nuclear	3,810	3,733	3,825	*	25.0	24.5	16.3
Hydroelectric	2,648	2,708	2,706	.2	17.4	17.8	11.5
Other Renewables	0	0	11	NM	.0	.0	*
Pumped Storage	185	185	216	1.7	1.2	1.2	.9

Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003 (Megawatthours)

				Annual	1	Percentage Shar	e
Energy Source	1994	1998	2003	Growth Rate 1994-2003 (Percent)	1994	1998	2003
rizona							
Electric Utilities	71,203,728	81,299,241	80,348,246	1.4	99.0	99.0	85.1
Coal.	38,072,165	36,225,373	37,739,559	1	52.9	44.1	40.0
Petroleum	128,437	61,227	46,706	-10.6	.2	.1	1
Natural Gas	2,162,370	3,472,416	6,580,927	13.2	3.0	4.2	7.0
Nuclear	23,170,894	30,301,045	28,581,053	2.4	32.2	36.9	30.3
Hydroelectric	7,365,425	10,970,189	7,074,984	4	10.2	13.4	7.5
Other Renewables	0	0	41,426	NM	.0	.0	
Pumped Storage	304,437	268,991	283,590	8	.4	.3	.3
Independent Power Producers and Combined							
Heat and Power	730,768	795,831	14,047,972	38.9	1.0	1.0	14.9
Coal	270,965	338,054	351,850	2.9	.4	.4	.4
Petroleum	23,733	1,989	1,970	-24.2	*	*	*
Natural Gas	321,165	455,788	12,351,714	50.0	.4	.6	13.1
Other Renewables	114,905	0	3,843	-31.4	.2	.0	*
Other	0	0	1,338,595	NM	.0	.0	1.4
Total Electric Industry	71,934,496	82,095,072	94,396,218	3.1	100.0	100.0	100.0
Coal	38,343,130	36,563,427	38,091,409	1	53.3	44.5	40.4
Petroleum	152,170	63,216	48,676	-11.9	.2	.1	
Natural Gas	2,483,535	3,928,204	18,932,641	25.3	3.5	4.8	20.
Nuclear	23,170,894	30,301,045	28,581,053	2.4	32.2	36.9	30
Hydroelectric	7,365,425	10,970,189	7,074,984	4	10.2	13.4	7.:
Other Renewables	114,905	0	45,269	-9.8	.2	.0	
Pumped Storage	304,437	268,991	283,590	8	.4	.3	
Other	0	0	1,338,595	NM	.0	.0	1.4

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003

Fuel, Quality	nel, Quality 1994 1998		2003	Annual Growth Rate 1994-2003 (Percent)	
Arizona					
Coal (cents per million Btu)	137.4	133.1	W	W	
Average heat value (Btu per pound)	10,281	10,186	10,081	-0.2	
Average sulfur Content (percent)	.5	.5	.6	2.5	
Petroleum (cents per million Btu)	428.1	429.0	W	\mathbf{W}	
Average heat value (Btu per gallon)	142,149	138,851	139,550	2	
Average sulfur Content (percent)	.3	.1	.2	-5.3	
Natural Gas (cents per million Btu)	217.7	239.1	506.1	9.8	
Average heat value (Btu per cubic foot)	1,023	1.014	1,021	*	

Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003 (Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
Arizona				
Sulfur Dioxide				
Coal	129	90	63	-7.7
Petroleum	1	*	*	-32.4
Natural Gas	*	*	*	25.2
Other	1	_	_	NM
Total	130	90	63	-7.7
Nitrogen Oxide				
Coal	162	77	74	-8.4
Petroleum	*	*	*	-26.9
Gas	3	5	6	6.3
Other	*	_	*	-19.8
Total	166	82	80	-7.8
Carbon Dioxide				
Coal	36,564	35,497	37,544	.3
Petroleum	128	51	43	-11.5
Gas	1,443	2,289	9,069	22.7
Geothermal	_ ′	_ ′		NM
Other	_	_	_	NM
Total	38,135	37,836	46,655	2.3

Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003

				Annual	P	ercentage Sha	re
Sector	1994	1998	2003	Growth Rate 1994-2003 (Percent)	1994	1998	2003
Arizona							
Retail Sales (thousand megawatthours)							
Residential	18,212	21,611	27,742	4.8	38.5	38.7	43.3
Commercial	15,625	18,440	25,425	5.6	33.0	33.0	39.7
Industrial	11,303	12,549	10,914	4	23.9	22.5	17.0
Other	2,142	3,244	NA	NM	4.5	5.8	NA
Total	47,282	55,843	64,080	3.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential	1,694	1,875	2,316	3.5	45.2	45.8	49.2
Commercial	1,301	1,430	1,803	3.7	34.7	34.9	38.3
Industrial	636	643	587	9	17.0	15.7	12.5
Other	117	144	NA	NM	3.1	3.5	NA
Total	3,747	4,092	4,706	2.6	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential	9.30	8.68	8.35	-1.2	NA	NA	NA
Commercial	8.32	7.76	7.09	-1.8	NA	NA	NA
Industrial	5.63	5.12	5.37	5	NA	NA	NA
Other	5.47	4.43	NA	NM	NA	NA	NA
Total	7.93	7.33	7.34	9	NA	NA	NA

Table 9. Retail Electricity Sales Statistics, 2003

		Ful	l Service Pro	Other Providers				
Item	Investor- Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	Total
Arizona								
Number of Entities	5	28	3	9	NA	NA	NA	45
Number of Retail Customers	1,381,302	872,381	20,391	148,880	NA	NA	NA	2,422,954
Retail Sales (thousand megawatthours)	34,994	25,790	1,100	2,196	NA	NA	NA	64,080
Percentage of Retail Sales	54.61	40.25	1.72	3.43	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	2,744	1,719	43	199	NA	NA	NA	4,706
Percentage of Revenue	58.32	36.53	.92	4.23	NA	NA	NA	100.00
Average Retail Price (cents/kWh)	7.84	6.67	3.95	9.06	NA	NA	NA	7.34

Table 9 Notes: Data are shown for All Sectors. **Full Service Providers** sell bundled electricity services (e.g., both energy and delivery) to end users. Full Service Providers may purchase electricity from others (such as Independent Power Producers or other full service providers) prior to delivery. **Other Providers** sell either the energy or the delivery services, but not both. Sales volumes and customer counts shown for Other Providers refer to delivered electricity, which is a joint activity of both energy and delivery providers; for clarity, they are reported only in the Energy column in this table. The revenue shown under Other Providers represents the revenue realized from the sale of the energy and the delivery services distinctly. "Public" entities include municipalities, State power agencies, and municipal marketing authorities. "Federal" entities are either owned or financed by the Federal Government. "Cooperatives" are electric utilities legally established to be owned by and operated for the benefit of those using its service. The cooperative will generate, transmit, and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Facility" sales represent direct electricity transactions from independent generators to end use consumers.

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste. Direct Use is commercial or industrial use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is used in direct support of a service or industrial process located within the same facility or group of facilities that houses the generating equipment. Direct use is exclusive of station use.

^{* =} Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '*'.) Totals may not equal sum of components because of independent rounding;